

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

1. (Previously Presented) A system for completing a subterranean well, the system comprising:

a first assembly installed in a wellbore, the first assembly including a first fiber optic line;

a second assembly installed in the wellbore, the second assembly including a second fiber optic line; and

the first and second fiber optic lines being operatively connected to each other after the first and second assemblies are installed in the wellbore,

wherein each of the first and second assemblies includes an orienting device, wherein each of the first and second fiber optic lines has a fiber optic connector operably coupled thereto, and wherein the orienting devices align the fiber optic connectors with each other when the first and second assemblies are engaged with each other in the wellbore.

2. (Original) The system according to claim 1, wherein the second assembly includes a travel joint having the second fiber optic line extending through the travel joint.

3. (Original) The system according to claim 2, wherein the second fiber optic line extends longitudinally through a sidewall of the travel joint.

4. (Canceled)

5. (Original) The system according to claim 1, wherein the first assembly includes a fluid loss control device which prevents flow through the device until the second assembly is engaged with the first assembly.

6. (Original) The system according to claim 5, wherein the fluid loss control device is a valve which selectively prevents and permits flow through a longitudinal passage of the first assembly in communication with the wellbore external to the first assembly.

7. (Original) The system according to claim 5, wherein the fluid loss control device is a valve which selectively permits and prevents flow between a longitudinal passage of the first assembly and the wellbore external to the first assembly through a well screen of the first assembly.

8. (Original) The system according to claim 5, wherein the fluid loss control device is actuated to prevent flow through the device in response removing a service tool from the first assembly.

9. (Original) The system according to claim 5, wherein the fluid loss control device permits one-way flow through the device.

10. (Original) The system according to claim 1, wherein the first assembly includes a well screen and a packer, the first fiber optic line extending longitudinally through each of the well screen and the packer.

11. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint disposed in a subterranean well and configured for interconnection in a tubular string therein; and

a fiber optic line extending longitudinally and internally through the travel joint.

12. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint configured for interconnection in a tubular string; and

a fiber optic line extending longitudinally and internally through the travel joint, the fiber optic line extending through a sidewall of the travel joint.

13. (Original) The system according to claim 12, wherein the fiber optic line is coiled in the travel joint sidewall.

14. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint configured for interconnection in a tubular string; and

a fiber optic line extending longitudinally and internally through the travel joint, the fiber optic line being coiled about a passage formed longitudinally through the travel joint.

15. (Original) The system according to Claim 11, wherein the fiber optic line extends between first and second fiber optic connectors of the travel joint.

16. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint configured for interconnection in a tubular string; and

a fiber optic line extending longitudinally and internally through the travel joint, the fiber optic line extending between first and second fiber optic connectors of the travel joint, and each of the first and second fiber optic connectors being operatively connected to respective third and fourth fiber optic connectors as the travel joint is interconnected in the tubular string being installed in the wellbore.

17. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint configured for interconnection in a tubular string; and

a fiber optic line extending longitudinally and internally through the travel joint, the fiber optic line having a radius of curvature within the travel joint of at least approximately two inches.

18. (Previously Presented) A system for completing a subterranean well, the system comprising:

a longitudinally extendable and compressible travel joint configured for interconnection in a tubular string; and

a fiber optic line extending longitudinally and internally through the travel joint, the fiber optic line having a radius of curvature within the travel joint of at least approximately three inches.

19. (Previously Presented) A system for completing a subterranean well, the system comprising:

a gravel packing assembly including a first fiber optic connector; and

a seal assembly including a second fiber optic connector,

the seal assembly being oriented relative to the gravel packing assembly, thereby aligning the first and second fiber optic connectors, when the seal assembly is engaged with the gravel packing assembly in the well,

wherein each of the gravel packing assembly and the seal assembly includes an orienting device, the orienting devices rotationally orienting the seal assembly relative to the gravel packing assembly when the seal assembly is engaged with the gravel packing assembly.

20. (Canceled)

21. (Previously Presented) The system according to claim 19, wherein the orienting devices comprise an orienting profile and a lug, the lug engaging the orienting profile, thereby causing relative rotational displacement between the gravel packing assembly and the seal assembly.

22. (Original) The system according to claim 19, wherein the gravel packing assembly includes a fluid loss control device which selectively permits and prevents flow through the device.

23. (Original) The system according to claim 22, wherein the fluid loss control device is actuated in response to engagement between the seal assembly and the gravel packing assembly.

24. (Original) The system according to claim 19, wherein the gravel packing assembly includes a well screen and a fiber optic line operably coupled to the first fiber optic connector, the first fiber optic line extending longitudinally relative to the well screen.

25. (Original) The system according to claim 24, wherein the fiber optic line extends longitudinally within a sidewall of the well screen.

26. (Original) The system according to claim 19, wherein the seal assembly is connected to a travel joint having a third fiber optic line extending through the travel joint.

27. (Original) The system according to claim 26, wherein the third fiber optic line extends longitudinally within a sidewall of the travel joint.

28. (Original) The system according to claim 26, wherein the third fiber optic line is wrapped about an internal longitudinal passage of the travel joint.

29. (Original) The system according to claim 26, wherein the third fiber optic line is coiled within a sidewall of the travel joint.

30. (Original) A system for completing a subterranean well, the system comprising:

a first assembly installed in a wellbore, the first assembly including a fluid loss control device and a first fiber optic line; and

a second assembly installed in the wellbore and engaged with the first assembly, the second assembly including a second fiber optic line,

in response to engagement between the first and second assemblies in the wellbore, the fluid loss control device permitting flow through the device, and the first and second fiber optic lines being operatively connected to each other.

31. (Original) The system according to claim 30, wherein the fluid loss control device is a valve which selectively prevents and permits flow through a longitudinal passage of the first assembly in communication with the wellbore external to the first assembly.

32. (Original) The system according to claim 30, wherein the fluid loss control device is a valve which selectively permits and prevents flow between a longitudinal passage of the first assembly and the wellbore external to the first assembly through a well screen of the first assembly.

33. (Original) The system according to claim 30, wherein the first assembly includes a well screen, the first fiber optic line extending longitudinally through the well screen.

34. (Original) The system according to claim 30, wherein the first assembly includes a packer, the first fiber optic line extending longitudinally through the packer.

35. (Original) The system according to claim 30, wherein the second assembly includes a travel joint, and wherein the second fiber optic line extends longitudinally through the travel joint.

36. (Original) The system according to claim 30, wherein each of the first and second assemblies includes an orienting device, the orienting devices rotationally orienting the first and second assemblies relative to each other when the second assembly is engaged with the first assembly.

37. (Previously Presented) The system according to claim 36, wherein each of the first and second fiber optic lines has a fiber optic connector operably coupled thereto, and wherein the orienting devices align the fiber optic connectors when the second assembly is engaged with the first assembly.

38. (Original) The system according to claim 30, wherein the fluid loss control device is actuated to prevent flow through the device when a service tool is retrieved from the first assembly.

39. (Original) The system according to claim 30, wherein the fluid loss control device permits one-way flow through the device prior to engagement between the first and second assemblies in the wellbore.